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NO FOREIGN DISSEM [REDACTED]

PHOTOGRAPHIC INTERPRETATION REPORT



25X1A [REDACTED]

[REDACTED] MISSION 5521
29 JUNE 1966

NPIC/R-220/66
JULY 1966

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PREFACE

This summary report contains additional information on "new" and "change" targets and order of battle information on all targets listed in the index (MI) for this mission.

Items are arranged in sections.

The "New" section provides a description of targets newly identified or known but reported for the first time by NPIC.

The "Change" section provides a description of previously reported installations showing a major change, or those where an analysis of current photography furnishes more precise information.

The "Order of Battle" section provides information on targets where order of battle can be identified.

When there are no "New" or "Change" targets, or order of battle information, the appropriate section is omitted.

"New" and "change" targets are arranged 1) by country, 2) within the country according to subject, 3) within the subject by WAC area, and 4) within the WAC area by geographic coordinates in ascending order. Order of battle information is arranged 1) by subject, 2) within the subject according to country, 3) within the country by WAC area, and 4) within the WAC area by geographic coordinates in ascending order.

Map base used for derivation of coordinates is the best available among these series: US Air Target Chart, Series 200; AMS; ONC; or DIA JOG, 1:250,000.

The header line for each target contains, reading from left to right, the target name, the geographic coordinates,

the World Aeronautical Chart number, the Bombing Encyclopedia (BE) number, and the NPIC target number.

The COMOR target number, when available, appears above the photo reference data.

Photo reference data includes frame numbers and symbols denoting limiting conditions, photo interpretability, target coverage, and the mode.

Symbols for limiting conditions affecting photography are C (Clear), SC (Scattered Cloud Cover), HC (Heavy Cloud Cover), H (Haze), CS (Cloud Shadow), S (Snow), O (Obliquity), SD (Semidarkness), GC (Ground Cover), CF (Camouflage), and GR (Ground Resolution).

Interpretability of the photography is categorized as G (Good), F (Fair), and P (Poor). Target coverage is denoted by the symbols T (Total) or PT (Partial). The mode of coverage is indicated by ST (Stereo), NS (Non-Stereo), or PS (Partial Stereo).

When appropriate, an index follows "new" and "change" targets and another follows order of battle information, with targets in each index arranged alphabetically within a country.

AAA defenses are divided into three categories: light (ZPU-1, ZPU-2, ZPU-4, 37 mm), medium (57 mm, 85mm), and heavy (100 mm and larger). The term HMGA (heavy machine gun antiaircraft) indicates a weapon smaller than a ZPU-1. Where a category cannot be determined, the site will be listed as an AAA site and the number of guns indicated (example: 6-gun AAA site, occupied/unoccupied).

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THIS SECTION PROVIDES A DESCRIPTION OF NEW TARGETS.



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002-8

Target	Coordinates	WAC	Target Numbers	
			BE	NPIC
<p>-NORTH VIETNAM-</p> <p>ELECTRONICS/COMMUNICATIONS</p> <p>THUAN TON AIR WARNING RADAR FACILITY 1 NM EAST OF THUAN TON AT UTM WJ985218. SITE CONSISTS OF 1 REVETTED VAN-MOUNTED FLAT FACE RADAR AND 1 REVETTED PROBABLE GENERATOR. (SEE ATTACHMENT 1) [REDACTED] 25X1D</p> <p>BASIC SERVICES</p> <p>RAIL BY-PASS HA NOI/PING HSIANG RAIL LINE 4.8 NM NE OF HA NOI ON SEGMENT 5 OF THE HA NOI/LAO KAY RAIL LINE. APPROXIMATELY 2-NM RAIL SEGMENT IS UNDER CONSTRUCTION SOUTH OF AND BY-PASSING THE PERMANENT BRIDGE OVER THE CANAL DES RAPIDES. A BRIDGE IS BEING CONSTRUCTED AT 21-04N 105-55E (UTM WJ958305). [REDACTED] 25X1D</p> <p>RAIL ACTIVITY NGUYEN KHE/THAI NGUYEN RAIL LINE 3.3 NM NNE OF NGUYEN KHE. A METER-GAUGE RAIL SPUR EXTENDS WESTWARD FROM NGUYEN KHE/THAI NGUYEN RAIL LINE AT 21-13N 105-52E (UTM WJ898471) TO 21-13N 105-52E (UTM WJ888468) WHERE IT TERMINATES AT A RAIL BUMPER ADJACENT TO ROUTE 3. A WELL TRAVELED ROAD EXTENDS FROM THIS AREA TO PHUC YEN AIRFIELD. ACTIVITY -- 1 ROLLER, 2 SMALL SCRAPERS, 10 PROBABLE METAL CONVEYORS, NUMEROUS WOODEN CRATES, AND UNIDENTI- FIED MATERIAL PILED IN OPEN STORAGE ADJACENT TO SPUR TERMINUS. (SEE ATTACHMENT 2) [REDACTED] 25X1D</p>	<p>2059N 10556E</p> <p>2104N 10555E</p> <p>2113N 10552E</p>	<p>0616</p> <p>0616</p> <p>0616</p>		<p>112-V</p> <p>114-L</p> <p>413-A</p>

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THIS SECTION PROVIDES A DESCRIPTION OF PREVIOUSLY REPORTED TARGETS SHOWING CHANGE.

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Target	Coordinates	WAC	Target Numbers	
			BE	NPIC
<p>-NORTH VIETNAM-</p> <p>MILITARY INSTALLATIONS</p> <p>HA NOI ARMY SUPPLY DEPOT NNE</p> <p>4.5 NM NE OF HA NOI RAILROAD CLASSIFICATION YARD AT UTM WJ930295.</p> <p>WALLED MAIN DEPOT AREA (HA NOI WAREHOUSE AREA GIA THUONG, [REDACTED] CONSISTS OF AN OPEN STORAGE AREA, 5 LARGE WAREHOUSES, 6 SMALL VENTILATED BUILDINGS, 2 VEHICLE MAINTENANCE SHEDS, 1 LARGE TRANSHIPMENT BUILDING, 39 SUPPORT BUILDINGS, AND 15 GABLE-ROOF, 5 MONITOR-ROOF, 4 LARGE PEAKED-ROOF, AND 14 SMALL PEAKED-ROOF STORAGE BUILDINGS.</p> <p>THE POL STORAGE AREA (HA NOI PETROLEUM PRODUCTS STORAGE THANH AM, [REDACTED] HAS BEEN SUBJECTED TO AIR STRIKE. HEAVY SMOKE AND FLAMES PRECLUDE ACCURATE BOMB DAMAGE ASSESSMENT.</p> <p>[REDACTED] 25X1D</p>	2104N 10553E	0616		114-D
<p>VINH YEN MILITARY COMPLEX</p> <p>EIGHT MILITARY AREAS WITHIN A 3.8 NM RADIUS OF VINH YEN (REFERENCED FROM VINH YEN).</p> <p>AREA A (1.1 NM NNE AT UTM WJ640617, VINH YEN ARMY BARRACKS AND TRAINING AREA NORTH, [REDACTED] -- 3 SEPARATE SUBAREAS. A BARRACKS AREA CONTAINS 16 MULTISTORY BARRACKS, A LARGE ADMINISTRATION BUILDING, 5 MESSHALLS, AN ATHLETIC FIELD WITH SMALL FIELDHOUSE, AND NUMEROUS SMALL SUPPORT BUILDINGS SCATTERED THROUGHOUT. A SECURED MOTOR POOL JUST SOUTH CONTAINS 20 VEHICLE MAINTENANCE SHEDS, 10 SMALL SUPPORT BUILDINGS, AND A DRIVER TRAINING COURSE. A SECURED AMMUNITION STORAGE SITE JUST SOUTH OF MOTOR POOL CONTAINS 6 SMALL AMMUNITION STORAGE BUILDINGS. A MOVING-TARGET RANGE FOR TANKS 1 NM NE CONTAINS 2 CAMOUFLAGED REVETTED AMMUNITION STORAGE BUILDINGS, 1 FIRE CONTROL TOWER, 3 CAMOUFLAGED SUPPORT BUILDINGS, 3 FIRING LANES, AND 5 SMALL SUPPORT BUILDINGS AT FIRING POSITIONS. OB -- 2</p>	2120N 10537E	0616		241-A

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Target	Coordinates	WAC	Target Numbers	
			BE	NPIC
<p>T-34/85 TANKS ON RANGE. AREAS B AND C -- NO APPARENT CHANGE. AREAS D-G -- NOT COVERED. AREA H (3.7 NM NORTH AT UTM WJ620623) -- NEWLY IDENTIFIED TANK DISPERSAL AREA CONSISTS OF 12 THATCHED-ROOF SHALLOW EXCAVATIONS APPARENTLY USED AS TANK SHELTERS AND 3 UNROOFED EXCAVATIONS. OB -- 5 T-34/85 TANKS OBSERVED AT UTM WJ616627 AND 2 PARTIALLY EXPOSED PROBABLE TANKS PARKED IN 2 TANK SHELTERS. (SEE ATTACHMENT 3) [REDACTED] 25X1D</p> <p>HUU THU TRAINING SITE 2.8 NM EAST OF HUU THU. SITE CONSISTS OF 8 BARRACKS, 3 ADMINISTRATION, AND 21 STORAGE/SUPPORT BUILDINGS AT UTM WJ683603, AND A MOVING-TARGET RANGE FOR TANKS NORTH OF SUPPORT AREA AT UTM WJ680620 CONTAINING 2 CAMOUFLAGED REVETTED AMMUNITION STORAGE BUILDINGS, 1 FIRE CONTROL TOWER, AND 3 CAMOUFLAGED SUPPORT BUILDINGS AT SW END OF RANGE. OB -- 2 T-34/85 TANKS ON RANGE. [REDACTED] 25X1D</p>	2122N 10540E	0616		321-A

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THIS SECTION PROVIDES ORDER OF BATTLE INFORMATION.

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Target	Coordinates	WAC	Target Numbers	
			BE	NPIC
<p>--NORTH VIETNAM--</p> <p>AIR</p> <p>HANOI/GIA LAM AIRFIELD</p> <p>OB -- 2 PROBABLE COKE, 3 PROBABLE CRATE, 4 LIGHT STRAIGHT-WING (TRANSPORT-TYPE), 1 HOOK, AND 5 MEDIUM PROBABLE HELICOPTERS.</p> <p>25X1A</p> <p>25X1D</p> <p>PHUC YEN AIRFIELD</p> <p>OB -- 6 BEAGLE, 9 FISHBED, 7 FAGOT/FRESCO, AND AT LEAST 8 SMALL UNIDENTIFIED AIRCRAFT.</p> <p>25X1A</p> <p>25X1D</p> <p>GROUND</p> <p>HUNG YEN ARMY BARRACKS</p> <p>OB -- 4 CARGO TRUCKS.</p> <p>25X1D</p> <p>VINH YEN MILITARY COMPLEX</p> <p>OB -- AREA A -- 2 T-34/85 TANKS, AREA H -- 5 T-34/85 TANKS AND 2 PARTIALLY EXPOSED PROBABLE TANKS. (SEE ATTACHMENT 3)</p> <p>25X1D</p> <p>HUU THU TRAINING SITE</p> <p>OB -- 2 T-34/85 TANKS ON RANGE.</p> <p>25X1D</p>	<p>2102N 10553E</p> <p>2113N 10548E</p> <p>2040N 10604E</p> <p>2120N 10537E</p> <p>2122N 10540E</p>	<p>0616</p> <p>0616</p> <p>0616</p> <p>0616</p> <p>0616</p>	<p>25X1A</p> <p>114</p> <p>326-C</p> <p>362</p> <p>241-A</p> <p>321-A</p>	

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Target	Coordinates	WAC	Target Numbers	
			BE	NPIC
ELECTRONICS THUAN TON AIR WARNING RADAR FACILITY OB -- 1 REVETTED VAN-MOUNTED FLAT FACE RADAR AND 1 REVVETTED PROBABLE GENERATOR. (SEE ATTACHMENT 1) [REDACTED] 25X1D	2059N 10556E	0616		112-V
MISCELLANEOUS RAIL ACTIVITY NGUYEN KHE/THAI NGUYEN RAIL LINE ACTIVITY -- 1 ROLLER, 2 SMALL SCRAPERS, 10 PROBABLE METAL CONVEYORS, NUMEROUS WOODEN CRATES, AND UNIDENTIFIED MATERIAL PILED IN OPEN STORAGE. (SEE ATTACHMENT 2) [REDACTED] 25X1D	2113N 10552E	0616		413-A
TIEN DUOC HA SA-2 MISSILE EQUIPMENT OB -- 2 CANVAS-COVERED SA-2 MISSILE TRANSPORTERS AND 1 CARGO TRUCK AT UTM WJ882483. (SEE ATTACHMENT 4) [REDACTED] 25X1D	2114N 10550E	0616		
HA NOI/PING HSIANG RR SEGMENT 3 ACTIVITY -- APPROXIMATELY 176 PIECES OF ROLLING STOCK AND 1 LOCOMOTIVE IN RAILYARD AT UTM WJ955314 AND APPROXIMATELY 73 PIECES OF ROLLING STOCK OUTSIDE RAILYARD AT UTM WJ958322. [REDACTED] 25X1A [REDACTED] 25X1D	2110N 10604E	0616		297-A

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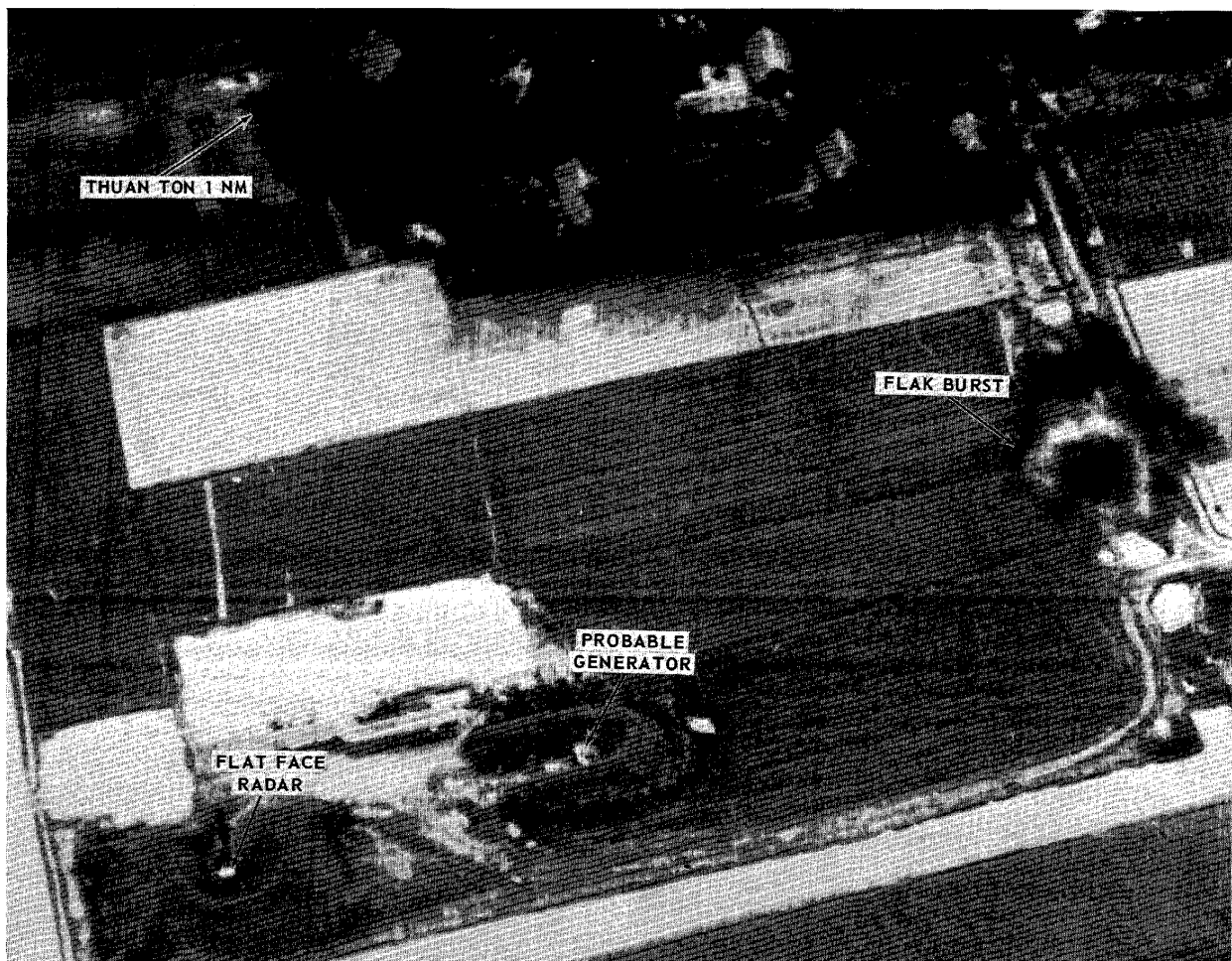
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ATTACHMENT 1



THUAN TON AIR WARNING RADAR FACILITY, NORTH VIETNAM.

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ATTACHMENT 2



RAIL ACTIVITY NGUYEN KHE/THAI NGUYEN RAIL LINE, NORTH VIETNAM.

NPIC L-1221 (7/66)

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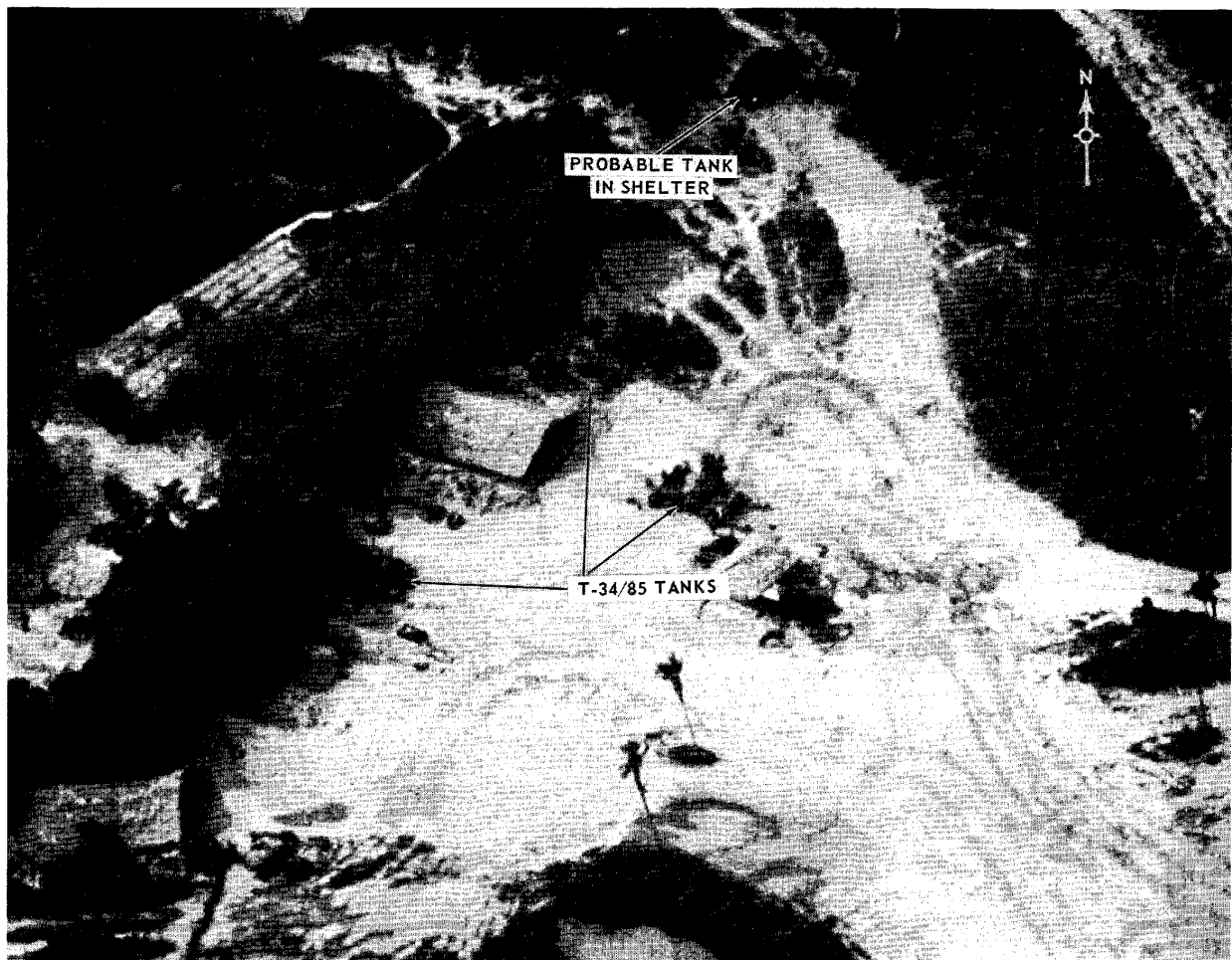
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ATTACHMENT 3



AREA H, VINH YEN MILITARY COMPLEX, NORTH VIETNAM

NPIC L-1222 (7/66)

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ATTACHMENT 4



TIEN DUOC HA SA-2 MISSILE EQUIPMENT, NORTH VIETNAM.

NPIC L-1219 (7/66)

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